



Circuit breaker, ComPact NSX160F AC/DC, 18kA/415VAC, TMD trip unit 160A, 2 poles 2d

LV438700

To be discontinued on: 30 June 2023

! To be discontinued

Important message: This product has been switched to new ComPacT range and is no longer commercialized. It will continue to be available in H1 2023 only limited to specific projects.

Main

Range	ComPact
Product name	ComPact NSX
Range of product	ComPact NSX100250 DC ComPact NSX100250
Device short name	NSX160F
Product or component type	Circuit breaker
Device application	Distribution
Number of poles	2P
Protected poles description	2t
[In] rated current	160 A at 40 °C
[Ue] rated operational voltage	690 V AC 50/60 Hz 500 V DC
Network type	DC AC
Network frequency	50/60 Hz
Suitability for isolation	Yes conforming to EN/IEC 60947-2
Utilisation category	Category A
[Icu] rated ultimate short-circuit breaking capacity	5 kA Icu at 660/690 V AC 50/60 Hz conforming to IEC 60947-2 36 kA Icu at 250 V DC 1P conforming to IEC 60947-2 36 kA Icu at 125 V DC 1P conforming to IEC 60947-2 36 kA Icu at 500 V DC 2P conforming to IEC 60947-2 10 kA Icu at 500/525 V AC 50/60 Hz conforming to IEC 60947-2 15 kA Icu at 440 V AC 50/60 Hz conforming to IEC 60947-2 18 kA Icu at 380/415 V AC 50/60 Hz conforming to IEC 60947-2 36 kA Icu at 220/240 V AC 50/60 Hz conforming to IEC 60947-2
Performance level	F 18 kA 415 V AC
Trip unit name	TM-D
Trip unit technology	Thermal-magnetic
Control type	Toggle
Circuit breaker mounting mode	Fixed

Complementary

[Ui] rated insulation voltage 750 V AC 50/60 Hz conforming to IEC 60947-2

Fundamental content of the content		
Selection Sele		8 kV conforming to IEC 60947-2
Electrical durability 5000 cycles at 440 V In 10000 cycles at 440 V In		36 kA at 250 V DC conforming to IEC 60947-2 36 kA at 125 V DC conforming to IEC 60947-2 36 kA at 500 V DC conforming to IEC 60947-2 10 kA at 500/525 V AC 50/60 Hz conforming to IEC 60947-2 15 kA at 440 V AC 50/60 Hz conforming to IEC 60947-2 18 kA at 380/415 V AC 50/60 Hz conforming to IEC 60947-2
Mounting support Backplate Upside connection Front Connection pitch 35 mm Protection type for overload protection (thermal) for short-circuit protection (magnetic) Trip unit rating 160 A at 40 °C Long-time pick-up adjustment type ir (thermal protection) [Ir] long-time protection pick-up adjustment adjustment range Long-time protection pick-up adjustment adjustment range [Im] magnetic protection delay adjustment type tr [Im] magnetic protection delay adjustment type tr [Im] magnetic protection Without Width (W) 70 mm Height (H) 161 mm Depth (D) 88 mm Environment Environment Electrical shock protection Class II Electrical shock protection Palo conforming to IEC 605694 If degree of protection IK07 conforming to IEC 60529 IK degree of protection IK07 conforming to IEC 6252 Ambient air temperature for operation Ambient air temperature for -2570 °C Coperating altitude 02000 m with derating 2000 m5000 m with derating 2000 m5000 m with derating Packing Units	Mechanical durability	40000 cycles
Upside connection Front Connection pitch 35 mm Protection type for overload protection (thermal) for short-circuit protection (magnetic) Trip unit rating 160 A at 40 °C Long-time pick-up adjustment type in (thermal protection) [Ir] long-time protection pick-up adjustment type in (thermal protection) IIr] long-time protection pick-up adjustment type in (thermal protection) IIIn magnetic protection pick-up adjustment type in IIn IIIn Long-time protection pick-up adjustment type in IIIn IIIm magnetic protection pick-up adjustment type in IIIn IIIm magnetic protection pick-up adjustment type in IIIn IIIm magnetic protection pick-up range Earth-leakage protection Without Width (W) 70 mm Height (H) 161 mm Depth (D) 86 mm Environment Standards Envire 80947 Product certifications CCC EAC Matrice Whatine Overvoltage category Class II Electrical shock protection class II Electrical shock protection IP40 conforming to IEC 60529 IK degree of protection IP40 conforming to IEC 60529 IK degree of protection IR07 conforming to IEC 60529 IK degree of protection IR07 conforming to IEC 62262 Ambient air temperature for cyc	Electrical durability	
Downside connection Front Connection pitch 35 mm Protection type for overload protection (thermal) for short-circuit protection (magnetic) Trip unit rating 160 A at 40 °C Long-time pick-up adjustment type ir (thermal protection) [Ir] long-time protection pick-up adjustment tange Long-time protection pick-up adjustment tange Long-time protection pick-up adjustment type ir (thermal protection) [Ir] long-time protection delay adjustment type tr [Im] magnetic protection pick-up range Earth-leakage protection Without Width (W) 70 mm Height (H) 161 mm Depth (D) 86 mm Environment Standards ENIEC 60947 Product certifications CCC EAC Marine Leac AC Marine Overvoltage category Class II Electrical shock protection Class II class II P degree of protection IP40 conforming to IEC 60864-1 IP degree of protection IR07 conforming to IEC 60229 IK degree of protection IR07 conforming to IEC 62262 Ambient air temperature for cyb 85 °C storage Relative humidity 0 95 % Relative humidity 0 95 % Operating altitude 0 2000 m without derating 2000 m 5000 m with derating	Mounting support	Backplate
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Height (H) 161 mm Depth (D) 86 mm Environment Standards EN/IEC 60947 Product certifications CCC EAC Marine Overvoltage category Class II Electrical shock protection class Pollution degree 3 conforming to IEC 60664-1 IP degree of protection IP40 conforming to IEC 60529 IK degree of protection IK07 conforming to IEC 6262 Ambient air temperature for operation Ambient air temperature for storage Relative humidity 095 % Operating altitude Packing Units	Earth-leakage protection	Without
Environment Standards EN/IEC 60947 Product certifications CCC EAC Marine Overvoltage category Class II Electrical shock protection class Pollution degree 3 conforming to IEC 60664-1 IP degree of protection IP40 conforming to IEC 60529 IK degree of protection IK07 conforming to IEC 6262 Ambient air temperature for operation Ambient air temperature for storage Relative humidity 095 % Operating altitude 02000 m without derating 2000 m5000 m with derating	Width (W)	70 mm
Environment Standards EN/IEC 60947 Product certifications CCC EAC Marine Overvoltage category Class II Electrical shock protection class Pollution degree 3 conforming to IEC 60664-1 IP degree of protection IP40 conforming to IEC 60529 IK degree of protection IK07 conforming to IEC 6262 Ambient air temperature for operation Ambient air temperature for storage Relative humidity 095 % Operating altitude Packing Units	Height (H)	161 mm
Standards EN/IEC 60947 Product certifications CCC EAC Marine Overvoltage category Class II Electrical shock protection class II Pollution degree 3 conforming to IEC 60664-1 IP degree of protection IP40 conforming to IEC 60529 IK degree of protection IK07 conforming to IEC 62262 Ambient air temperature for operation Ambient air temperature for storage Relative humidity 095 % Operating altitude Packing Units	Depth (D)	86 mm
Product certifications CCC EAC Marine Overvoltage category Class II Electrical shock protection class Pollution degree 3 conforming to IEC 60664-1 IP degree of protection IP40 conforming to IEC 60529 IK degree of protection IK07 conforming to IEC 62262 Ambient air temperature for operation Ambient air temperature for storage Relative humidity 095 % Operating altitude Packing Units	Environment	
Class II Electrical shock protection class Pollution degree 3 conforming to IEC 60664-1 IP degree of protection IK07 conforming to IEC 60529 IK degree of protection IK07 conforming to IEC 6262 Ambient air temperature for operation Ambient air temperature for storage Relative humidity 095 % Operating altitude Packing Units	Standards	EN/IEC 60947
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Pollution degree 3 conforming to IEC 60664-1 IP degree of protection IP40 conforming to IEC 60529 IK degree of protection IK07 conforming to IEC 62262 Ambient air temperature for operation -2570 °C Ambient air temperature for storage Relative humidity 095 % Operating altitude 02000 m without derating 2000 m5000 m with derating	Overvoltage category	Class II
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IK degree of protection IK07 conforming to IEC 62262 Ambient air temperature for operation Ambient air temperature for storage Relative humidity Operating altitude O2000 m without derating 2000 m5000 m with derating	Pollution degree	3 conforming to IEC 60664-1
Ambient air temperature for operation Ambient air temperature for storage Relative humidity Operating altitude -2570 °C -5085 °C	IP degree of protection	IP40 conforming to IEC 60529
Ambient air temperature for storage Relative humidity Operating altitude One altitu	IK degree of protection	IK07 conforming to IEC 62262
Relative humidity Operating altitude 02000 m without derating 2000 m5000 m with derating		-2570 °C
Operating altitude 02000 m without derating 2000 m5000 m with derating Packing Units	·	-5085 °C
Packing Units	Relative humidity	095 %
	Operating altitude	
	Packing Units	
		PCE

Number of Units in Package 1	1
Package 1 Height	8.0 cm
Package 1 Width	13.0 cm
Package 1 Length	17.5 cm
Package 1 Weight	1.288 kg
Unit Type of Package 2	S03
Number of Units in Package 2	12
Package 2 Height	30.0 cm
Package 2 Width	30.0 cm
Package 2 Length	40.0 cm
Package 2 Weight	15.943 kg

Offer Sustainability

Sustainable offer status	Green Premium product
EU RoHS Directive	Compliant EU RoHS Declaration
Mercury free	Yes
China RoHS Regulation	China RoHS declaration Product out of China RoHS scope. Substance declaration for your information
RoHS exemption information	Yes
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End of Life Information
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
California proposition 65	WARNING: This product can expose you to chemicals including: DINP, which is known to the State of California to cause cancer, and DIDP, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

Contractual warranty

Warranty 18 months

Recommended replacement(s)

LV438700 is replaced by:

1x



Circuit breaker, ComPacT NSX160F AC/DC, 18kA/415VAC, 2 poles, TMD trip unit 160A

C16F2TM160